



PATENT  
37310-000125/US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: **Sungho JIN et al.**

Conf: **1494**

Serial No.: **09/338,520**

Group: **2879**

Filed: **June 23, 1999**

Examiner: **T. Clove**

For: **CATHODE WITH IMPROVED WORK FUNCTION AND METHOD  
FOR MAKING THE SAME**

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**AMENDMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

**July 1, 2002**

Sir:

Responsive to the Office Action mailed **April 8, 2002**, the following amendments and remarks are respectfully submitted in connection with the above-identified application.

**IN THE CLAIMS**

Please cancel claims 4, 7, 8 and 16 without prejudice or disclaimer of the subject matter contained therein.

Please amend the claims as follows.

1. (Twice Amended) A thermionic cathode, comprising:

a substrate;

an emissive layer; and

a buffer, located between said substrate and said emissive layer, said buffer inhibiting interaction of said emissive layer and said substrate by way of one of altering, and altering and blocking said substrate.

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Please type a plus sign (+) inside this box → ☐**TRANSMITTAL  
FORM**

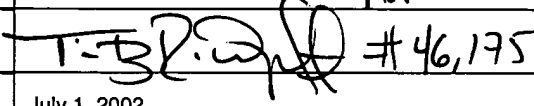
(to be used for all correspondence after initial filing)

<b>TRANSMITTAL FORM</b> (to be used for all correspondence after initial filing)	<b>Applicati n Number</b>	09/338,520	
	<b>Filing Dat</b>	June 23, 1999	
	<b>First Named Inv nt r</b>	Sungho JIN et al.	
	<b>Group Art Unit</b>	2879	
	<b>Examiner Name</b>	T. Clove	
<b>Total Number of Pages in This Submission</b>	9	<b>Attorney Docket Number</b>	37310-000125/US

**ENCLOSURES (check all that apply)**

<input type="checkbox"/> Fee Transmittal Form  <input type="checkbox"/> Fee Attached  <input checked="" type="checkbox"/> Amendment / Response  <input type="checkbox"/> After Final  <input type="checkbox"/> Affidavits/declaration(s)  <input type="checkbox"/> Extension of Time Request  <input type="checkbox"/> Express Abandonment Request  <input type="checkbox"/> Information Disclosure Statement  <input type="checkbox"/> Certified Copy of Priority Document(s)  <input type="checkbox"/> Response to Missing Parts/ Incomplete Application  <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application)  <input type="checkbox"/> Drawing(s)  <input type="checkbox"/> Licensing-related Papers  <input type="checkbox"/> Petition  <input type="checkbox"/> Petition to Convert to a Provisional Application  <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address  <input type="checkbox"/> Terminal Disclaimer  <input type="checkbox"/> Request for Refund  <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group  <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences  <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)  <input type="checkbox"/> Proprietary Information  <input type="checkbox"/> Status Letter  <input type="checkbox"/> Other Enclosure(s) (please identify below):
<b>Remarks</b>		<b>The Commissioner is hereby authorized to charge any additional fees that may be required under 37 CFR 1.16 or 1.17 to Deposit Account No. 08-0750. A duplicate copy of this sheet is enclosed.</b>

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

<b>Firm or Individual name</b>	Harness, Dickey & Pierce, P.L.C.	<b>Attorney Name</b> John A. Castellano for	<b>Reg. No.</b> 35,094
<b>Signature</b>			
<b>Date</b>	July 1, 2002		

**CERTIFICATE OF MAILING/TRANSMISSION**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231, or facsimile transmitted to the U.S. Patent and Trademark Office on the date indicated below.

<b>Typed or printed name</b>			
<b>Signature</b>		<b>Date</b>	